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## PATENT ABSTRACTS OF JAPAN

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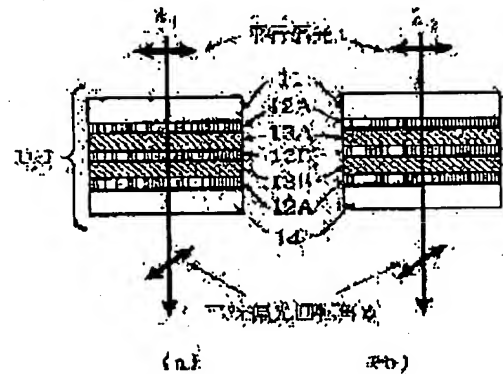
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## (54) PHASE SHIFTER AND OPTICAL HEAD DEVICE

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain an optical head device which stably detects signals by obtaining an optical element producing angles of polarization directions' rotation after transmission with respect to linearly polarized light of both wavebands for CD(compact disk) and DVD(digital versatile disk) type optical disks identical to each other.

**SOLUTION:** The phase element 101 mounted on the optical head device comprises birefringent organic thin films 13A and 13B which have identical retardation values to each other, are superposed on each other so as to make respective optic axes intersect each other and are fixed by adhesives 12A and 12B between transparent substrates 11 and 14.



## LEGAL STATUS

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